TALANTA, VOLUME 40, 1993

SUBJECT INDEX

Accuracy, of analytical technique . . . 1
— of Monte Carlo confidence intervals . . . 355
Acetic acid vapours, Sensor for . . . 1725
Acetylsalicylic acid and caffein, Determination, simultaneous . . . 1799
Acid-base equilibria . . . 157
Acidity constants, of anthraquinones and anthrones . . . 697
Activity coefficients, Determination . . . 1019
Adsorbents, for sampling of organochlorine compounds . . . 1769
Alcohols, Oxidation . . . 167
Aliphatic amides, pH and autoprotolysis constants . . . 479
— organohalides, Reduction . . . 741
Aluminium, Determination . . . 415
—, — spectrophotometric, of traces . . . 1059
—, — by stripping voltammetry . . . 351
—, — by HPLC . . . 641
—, — kinetic . . . 261
Amino acids, aliphatic, Determination by HPLC . . . 657
— — and carboxylic ligands, mixed proton complexes . . . 629
Aminodienone-carbocyanine dye system . . . 935
m-Aminophenol, Determination by FIA . . . 1173
Ammonia gas, Determination in pyrolysis gases . . . 1575
— —, Sensor . . . 757
Ammonium ion, Determination, chemiluminometric . . . 1245
Amoxycillin and dicloxacillin, Determination . . . 811
Amperometric gas sensors, a review . . . 461
Amperometry, Determination of ascorbic acid . . . 399
Amphorae, chemometric characterization . . . 1749
Amplification reactions, Determination of Cr . . . 841
Analysis, microbial calorimetric, of organic compounds, a review . . . 127
Analyte preconcentration and separation . . . 1829
Analytical chemistry in Spain . . . 1587
Anions, Determination . . . 1131
Annotation paper: Interference in the determination of Hg by FIA-AAS . . . 729
Anthraquinones and anthrones, Acidity constants . . . 697
Antimony, Determination by electrothermal AAS . . . 1815
Apple II-ISE intelligent ion analyzer, application . . . 891
Arsenic, Determination by FIA . . . 185
—, —, by hydride generation-AAS . . . 1917
—, —, spectrophotometric . . . 653
Ascorbic acid, Determination by near-IR reflectance spectroscopy . . . 1671
— —, — voltammetric . . . 399
Assay, fluorimetric, of Factor XIII . . . 81
Astemizole, Purity . . . 1357
Atomic absorption spectrometer, simultaneous multielement . . . 879
— — spectrometry (AAS), Determination of Cu, Co and Ni . . . 675
— — —, — of Mn . . . 701
— — — cold-vapour, Determination of Hg . . . 1477
— — —, electrothermal, Analyte preconcentration . . . 1829
— — —, —, Determination of Cd . . . 409, 1643
— — —, —, — of Cr . . . 347
— — —, —, — of In . . . 1839
— — —, —, — of metals . . . 799
— — —, —, — of noble metals . . . 791
— — —, —, — of Sb, Ni and V . . . 1815
— — —, hydride-generation, Determination of As . . . 1917
— — —, on-line injection . . . 1077
— emission spectrometry, inductively coupled plasma (ICP-AES), Determination of B . . . 1397
— — — ICP-AES, Determination of elements . . . 1107
— — —, ICP-AES, Matrix effect of Ba . . . 1295
Atropinium scopalaminium integrated circuits . . . 1445
Autoprotolysis constants, of ketones . . . 649
Avidin, fluorophore-labelled, emission intensity . . . 1139

Barium, Matrix effect in ICP-AES . . . 1295
Benzaldehyde in benzyl alcohol, Assay . . . 919
Beryllium, Determination, spectrophotometric . . . 883
Biosensor, for ferric ion . . . 1619
—, for L-lysine . . . 1301
Bismuth, mixed hydroxide complex . . . 485
Boron, Determination, FIA-spectrophotometric . . . 1967
—, — by ICP-AES . . . 1397
Bromadiolone, Determination, spectrometric . . . 225
Bromide, Determination, spectrophotometric . . . 43
Buspirone, Determination, voltammetric . . . 1551

Cadmium, Determination by AAS . . . 1643
—, — by electrothermal AAS . . . 409
—, — spectrophotometric . . . 771
—, — simultaneous with Cu and Zn . . . 1861
Calcium, Binding by fulvic acids . . . 521
—, Complexation . . . 999
—, Determination by FIA . . . 95
—, — by FIA-AAS . . . 1677
Carbaryl residues, Determination . . . 1695
Carbimazole, Determination, bromometric . . . 577
Carbonate, Determination by gas permeation FIA . . . 831
Catalysts, Determination by catalytic kinetics . . . 1013
Catechol-resorcinol mixtures, Resolution . . . 1601
Cells, flow-through fiber-optic . . . 341
Cellulase, Determination by generic FIA system . . . 1891
Cerium, Determination by XRF . . . 931
Cerium(III), Determination, polarographic . . . 1883
Chaotic chemical systems . . . 1227
Chelating fibers, for enrichment of metal traces . . . 527
Chemiluminescence, Determination of ammonium ion . . . 1245
—, — of coproporphyrin . . . 1385
—, — of Mn . . . 1557
—, Oxidation of alcohols . . . 167
Chemometric investigation of complex equilibria . . . 1873
Chiral stationary phases, for HPLC . . . 1367
Chlorides, Determination potentiometric . . . 1465
Chlorotriazines, Determination by GC . . . 1665
Chromatography, column (CC), Separation of Mo(VI) . . . 1511
—, countercurrent (CCC), liquid phase retention . . . 1489
— gas (GC), for rapid gas analyses . . . 213
—, GC-AAS, Determination of organotin compounds . . . 299
—, gas-liquid (GLC), stationary phases . . . 1541
—, high performance liquid (HPLC), chiral stationary phases . . . 1367
—, HPLC, Detection by surface enhanced Raman spectrometry (SERS) . . . 1741
—, —, Determination of aliphatic amino acids . . . 657
—, —, — of clodronate . . . 661
—, —, — of Cu . . . 495
—, —, — of hydrazine compounds . . . 943
—, —, — of impurities in lovastatin . . . 491
—, —, — of metals . . . 641
—, —, — of penicillins . . . 811
—, —, — of substituted polycyclic aromatic HCs . . . 615
—, —, purity of astemizole . . . 1357
—, high-speed . . . 775
—, ion-exchange, Application of FIRE . . . 867
—, ion-interaction, of impurities in Cu . . . 565
—, — —, of P oxyanions . . . 307
—, — —, of rare-earth complexes . . . 237
—, ion-pair (IPC), Determination of Cr(VI) . . . 827
Chromium, Determination by AAS . . . 347
—, — spectrophotometric . . . 707
Chromium(III), Determination by FIA . . . 75
— and (VI), Determination, iodometric . . . 841
Chromium(VI), Determination by IPC . . . 827
—, — spectrophotometric . . . 713
— and total Cr, Determination, spectrophotometric . . . 1637
Chronopotentiometry, Determination of Cu ultratraces . . . 1221
Clodronate, Determination by HPLC . . . 661
Clotrimazole, Determination, spectrophotometric . . . 1289
Cloud point methodology . . . 1703
CNBr fragments, of human serum albumin . . . 557
Cobalt, Determination of traces . . . 1405

Cobalt(II), extraction . . . 805
—, Separation from metals . . . 1535
Combustion, spontaneous . . . 213
Comparison, of simplex and Powell systems . . . 1113
Complexes, Composition by FIA . . . 969
—, Equilibria . . . 243
—, —, chemometric investigation . . . 1873
Complexing agents, Determination by reverse FIA . . . 101
Conductometry, Determination of total carbonate . . . 831
Convective transport, in diffuse samplers . . . 785
Copper, Determination by AAS . . . 799
—, — by FIA . . . 511
—, — of traces . . . 1085
—, — of trace impurities . . . 565
—, — of ultratraces . . . 1221
—, Speciation by HPLC . . . 495
— and Ni, Determination, spectrophotometric . . . 897
—, cadmium and zinc, Determination, simultaneous . . . 1861
— complexes, Determination by cathodic SV . . . 1481
Copper(II), Determination by first derivative spectrophotometry . . . 1519
—, Extraction . . . 1049
Coproporphyrin, urinary, screening . . . 1385
Corn syrup, Analysis . . . 775
Covariance, Analysis of . . . 645
Critical micelle concentration, rapid determination . . . 391
Crystallization, of organic crystals . . . 1589

Detector, amperometric . . . 1131
—, fluorimetric . . . 657
—, optical absorption . . . 43, 1331
—, photometric . . . 1193
Diacetyl, Determination, fluorimetric . . . 1419
Diazepam, Determination, electrochemical . . . 1775
Dibenzo[b,f]-1,4-oxazepine, Determination, spectrophotometric . . . 287, 1189
2,6-Dichloro-1,4-phenylenediamine, electrochemical oxidation . . . 1789
Diffusive samplers, error bounds . . . 143
— —, optimal design . . . 139
Digestion, of solid samples . . . 1609
Dihydroxybenzoic acids, Protonation . . . 609
Diode, blue light-emitting, as radiation source . . . 1193
Dipyridamole, Determination by adsorptive SV . . . 1183
Dissociation constants, or organophosphinic acids . . . 1339
Distribution equilibria . . . 157
Diuretics, Determination, spectrophotometric . . . 1711
L-Dopa, Determination photochemical by FIA . . . 1625
Double-membrane electrode, Ephedrine-selective . . . 1461
Drug substance L-696, 229, Impurities . . . 989

Editorial: Prof. Tom S. West, Presentation . . . No. 8, VII
—, Professor Janos Inczedy—70 years . . . No. 6, V
Electrochemical behaviour, of zopiclone . . . 313
— detection, for HPLC . . . 615
Electrode, ammonia-selective . . . 1575
—, bromide-selective, Determination of pyridoxine . . . 1213
—, carbon paste, chemically modified . . . 1637
—, — —, stripping of mitoxantrone . . . 325
—, chemically modified, as pH sensor . . . 1255
—, ephedrine-selective . . . 1461
—, fluoride-ion selective, for Fe . . . 891
—, glassy carbon, enzyme-based . . . 1157
—, H^+ selective . . . 957
—, Hydrogen-Pd generator . . . 649
—, ion-selective (ISE), for Ca . . . 521
—, iridium oxide, Determination of hydrogen peroxide . . . 1911
—, mercury, Stripping of mitoxantrone . . . 333
—, mixed-valent cobalt oxide/cyanocobaltate . . . 943
—, surfactant-coated, for voltammetric reduction . . . 741
—, tubular periodate, Determination of glycerol . . . 1563
— performance, repeatability . . . 645
Electrophoresis, Speciation of organomercurials . . . 1631
Electroreduction, of pipril . . . 1833
Elements, Determination by end-on viewed ICP-AES . . . 1107
Emission intensity, of fluorophore-labeled avidin . . . 1139
Epinephrine, Determination by FIA . . . 1625

Equilibrium constants, Determination, spectrophotometric . . . 925
Estrogens, Measurement by FIIA . . . 1899
Ethanol/methanol mixtures, Determination, enzymatic . . . 1425
Extraction, of Co . . . 805, 1405
—, of Cr(VI) . . . 725
—, of Cu(II) . . . 1049
—, of diazepam . . . 1775
—, of 2,4-D herbicide . . . 147
—, of Hg . . . 1325
—, of maneb . . . 201
—, of metals . . . 691
—, of Nb(V) . . . 913
—, of phenothiazine derivatives . . . 1525
—, of 8-quinolinolato-iron(III) . . . 231
—, of rare earths . . . 195
—, of Th . . . 173
—, of U(VI) . . . 1261

Factor thirteen (FXIII), fluorimetric assay . . . 81, 1943
Ferric ion, Biosensor for . . . 1619
Flame IR emission spectrometry (FIRE), Applications . . . 867
Flow cells, windowless, for detection by SERS . . . 1741
Flow injection analysis (FIA), composition of complexes . . . 969
— — —, Determination of As . . . 185
— — —, — of B . . . 1967
— — —, — of Ca . . . 95
— — —, — of complexing agents . . . 101
— — —, — of Cr(III) . . . 75
— — —, — of Cu and Zn . . . 511
— — —, — of formetanate and m-amino-phenol . . . 1173
— — —, — glycerol . . . 1563
— — —, — of hydrogen peroxide . . . 113
— — —, — of 9,10-phenanthrenequinone . . . 405
— — —, — of procainamide HCl . . . 623
— — —, — promethazine, chlorpromazine and trimeprazine . . . 681
— — —, — of Pt and Pd . . . 1975
— — —, — of total carbonate . . . 831
— — —, — of L-tyrosine . . . 995
— — —, — of vitamin C . . . 593
— — —, gas diffusion system . . . 1961
— — — generic system for determination of enzyme activities . . . 1891
— — —, optical absorption detectors . . . 43
— — —, on-line acid digestion . . . 1917
— — —, optimization . . . 1113
— — —, sequential injection technique . . . 81
— — —, use of modified fluids as carrier streams . . . 1951
— — —, — of solid interfaces . . . 21
— — — AAS, Determination of Hg . . . 1477
— — — —, — of K and Mg . . . 107
— — — —, — of metals . . . 1677
— — — amperometry, Determination of hydrogen peroxide . . . 1911
— — — cold-vapor-AAS, determination of Hg . . . 1927
— — — fluorimetry, Determination of trimeprazine and trifluoperazine . . . 1361
— — — FTIR, Determination of acetylsalicylic acid and caffeine . . . 1799
— — — —, — of ibuprofen . . . 89
— — — gas diffusion, Determination of tetrahydroborate . . . 1283
— — — gel filtration, Determination of P . . . 1981
— — — turbidimetry, Determination of sulphate . . . 1529
— — immunoanalysis (FIIA), Determination of estrogens . . . 1899
— sensor, bioluminescent, Determination of L-phenyl-alanine . . . 425
Fluorescence, new indicator . . . 1719
— of 1- and 2-naphthols and 1,2,3,4-tetrahydronaphthol . . . 901
Fluorimetry, Determination of diacetyl and 2,3-pentane-dione . . . 1419
—, — of Mn traces . . . 1041
—, — of nitrite . . . 1009
—, — of rhFXIII . . . 1943
Flunitrazepam, Determination, voltammetric . . . 1649
Foam sorbents, Extraction of Mn(II) . . . 1499
Formation constants, Dependence on ionic strength . . . 609
Formetanate, Determination by FIA . . . 1173
Free carbon and silicon carbide, Determination, gravimetric . . . 909

Gadolinium(III), Determination, spectrophotometric . . . 385
Gallium, Determination by square-wave ASV . . . 1273
Gallium(III), Determination, kinetic . . . 261

Gas analyses, rapid, by GC . . . 213
Gentamycin, Determination spectrophotometric . . . 851
Glycerol, Determination by FIA . . . 1563
Gold, Determination of ultratraces . . . 1823

2,4-D Herbicide, Extraction . . . 147
Host-guest room temperature phosphorescence . . . 1657
Humidity, Effect on response of vapor sensor . . . 431
Hydrocarbons, chlorinated, Determination spectrophotometric . . . 247
—, polycyclic aromatic, substituted, Determination . . . 615
Hydrogen peroxide, Determination by FIA . . . 113
— —, — by FIA-amperometry . . . 1911
— —, — spectrophotometric . . . 981
Hydrolysis, of Pb(II) . . . 1091

Ibuprofen, Determination by FIA . . . 89
Immobilization, of reagents . . . 1067
Indicators, complexometric . . . 1809
—, Sulphonephthalein . . . 1781
Indium, Determination, by electrothermal AAS . . . 1839
—, — voltammetric . . . 761
Injection system, for AAS . . . 1077
— —, for FIA . . . 81
Interelemental interference, Elimination . . . 675
Intralaboratory validation of accuracy . . . 1
Iron, Determination by AAS . . . 799
—, — by FIA-AAS . . . 1677
—, — potentiometric . . . 891
—, — spectrophotometric . . . 1267
Iron(II), Determination by sensor . . . 749
Iron(III), Determination, by HPLC . . . 641
—, — spectrophotometric . . . 1127
—, thiocyanato complexes . . . 599
Isoniazid, Determination, colorimetric . . . 1023
Isosbestic points, Determination of equilibrium constants . . . 925

JESS, Joint expert speciation system . . . 819

Kalman filter algorithm, Determination of phenols . . . 1505
Ketones, Determination of autoprotolysis constants . . . 649
Ketoprofen, Determination, spectrophotometric . . . 585
Kinetics, Kalman filtering of data . . . 1731

Lactate oxidase, Immobilizing for biosensor . . . 445
Lanthanum, Determination by XRF . . . 931
Lead, Determination in presence of PAN-S . . . 1147
Lead(II), Hydrolysis . . . 1091
Least-square algorithm MINOPT . . . 269, 279
Lovastatin, Determination of impurities . . . 491
L-Lysine, Determination . . . 1589
—, — by amperometric bioprobes . . . 1301

Magnesium, Complexation . . . 999
—, Determination by FIA-AAS . . . 107, 1677
—, — by first derivative spectrophotometry . . . 1519
— oxide, Determination, complexometric . . . 1005
L-Malate, Determination by FIA . . . 1163
Maneb, Determination, spectrophotometric . . . 201
Manganese, Determination by AAS . . . 701, 799
—, — by chemiluminescence . . . 1557
—, — fluorimetric . . . 1041
—, oxidizing equivalent . . . 533
Manganese(II), Determination of nanotraces . . . 1227
—, — spectrophotometric . . . 1499
Matrix, Airborne particulates, Determination of metals . . . 1815
—, Biological samples, Determination of Cd . . . 1643
—, — —, — of pipril . . . 1833
—, Blood, Determination of Hg . . . 1927
—, Cement, Determination of K and Mg . . . 107
—, Cu alloys, Determination of Ni and Fe . . . 1267
—, Dietary products, Determination of saccharin . . . 737
—, Edible oils, Determination of organotin compounds . . . 299
—, Environmental samples, Determination of P . . . 1981
—, Fe and Al alloys, Determination of Cu and Ni . . . 897
—, Feeds, Determination of L-lysine . . . 1301

—, Fertilizers, Determination of ammonium ion . . . 1245
—, Flyash cement, Determination of MgO . . . 1005
—, Food, Determination of Cu . . . 1221
—, —, — of Zn . . . 17
—, Freshwaters, Determination of Mn . . . 533
—, Geological samples, Determination of rare elements . . . 9
—, Gin, Determination of ethanol . . . 167
—, Hair, Determination of Zn . . . 381
—, High-purity zinc, Determination of Cd . . . 771
—, Human serum albumin, Analysis . . . 557
—, Hydrogeochemical samples, Determination of V . . . 541
—, Jet fuel, Determination of Cu . . . 495
—, Lanthanides, Separation of Th . . . 173
—, Marine samples, Determination of organomercurials . . . 1631
—, Ores, Determination of Au . . . 1823
—, Pharmaceuticals, Detn of acetylsalicylic acid and caffeine . . . 1799
—, —, Determination of ascorbic acid . . . 1671
—, —, — of diazepam . . . 1775
—, —, — of ibuprofen . . . 89
—, —, — of ketoprofen . . . 585
—, —, — of phenothiazines . . . 1525
—, —, — vitamin C . . . 593
—, Plants, Determination of Pt . . . 221
—, Plant materials and soils, Determination of B . . . 1967
—, Plating baths, Determination of Cr . . . 637
—, Reactor moderator solutions, Determination of hydrogen peroxide . . . 113
—, Rocks, Determination of Cu . . . 551
—, Rocks and related materials, Determination of Mn . . . 701
—, Sea bed nodules, Determination Cu, Co and Ni . . . 675
—, — water, Determination, of chlorotriazines . . . 1665
—, — —, — of Mo . . . 975
—, Serum, Determination of amino acids . . . 657
—, —, — of Cu and Zn . . . 511
—, —, — of metronidazole . . . 1073
—, —, — of L-phenylalanine . . . 425
—, —, — of L-tyrosine . . . 995
—, Silica fume, Determination of free C and silicon carbide . . . 909
—, Silicates, Determination of Mn(II) . . . 1499
—, Silicate rocks, ores, Determination of noble metals . . . 791
—, Sodium, Determination of Mn, Fe and Cu . . . 799
—, Soils, Herbicide extraction . . . 147
—, —, Determination of Hg . . . 719
—, Solids, Extraction of Hg . . . 1325
—, Steel, Determination of B . . . 1397
—, Sulphuric acid, Determination of Zn . . . 205
—, Urine, Determination of As . . . 185
—, —, — of Cd . . . 409
—, —, — of coproporphyrin . . . 1385
—, —, — of flunitrazepam . . . 1649
—, Water, Determination of anions . . . 1131
—, —, — of bromide . . . 43
—, —, — of Cr . . . 637
—, —, — of Hg(II) . . . 1097
—, —, — of organic residues . . . 1695
—, —, — of pollutants . . . 1031
—, —, — sulphate . . . 1529
—, Zinc ore concentrates, Determination of Hg . . . 1477
—, Zn-Pb concentrates, Determination of As . . . 653
Mercury, Determination by FIA-cold vapor-AAS . . . 1927
—, Determination spectrophotometric . . . 719
Mercury(II), Determination by new reagent . . . 1847
—, — by photoacoustic spectrometry . . . 1097
Metals, Determination by AAS . . . 675
—, Enrichment of traces from solutions . . . 527
—, Preconcentration . . . 691
— complexes, spectrophotometric study . . . 503
Metamizol, Determination . . . 1067
Methyl borate, Volatilization from Fe matrix . . . 1397
Methylenedioxyamphetamines, Oxidation . . . 1379
(+)-2-Methylthiirane-3,3-d_2, absolute configurations . . . 687
Metronidazole, Determination by adsorptive stripping voltammetry (SV) . . . 1073
Microelectrode, carbon fibre . . . 399
Mitoxanthrone, adsorptive stripping . . . 325, 333
Mixed-ligand complexes . . . 1411
Mixed proton complexes . . . 629

Modified fluids, as carrier streams for FIA . . . 1951
— PVC membranes, for H^+-selective electrode . . . 957
Molybdenum, Determination by HPLC . . . 641
—, — by ICP-MS . . . 975
—, — in geochemical samples . . . 1433
Molybdenum(VI), Separation by CC . . . 1511
Multicomponent analysis . . . 1687
Multiparametric curve fitting . . . 269, 279

Naphthols, Fluorescence properties . . . 901
New approach for separation and preconcentration . . . 1703
— metal-selective reagents: a review . . . 1313
— sample introduction system . . . 867
Nickel, Determination by adsorptive SV . . . 1167
—, — by electrothermal AAS . . . 1815
—, — spectrophotometric . . . 1267, 1809
Niobium(V), Extraction . . . 913
Nitrate and perchlorate media, Solubility of Bi . . . 485
Nitrite, Determination, fluorimetric . . . 1009
—, —, kinetic . . . 1375
Nitrophenols, Protonation . . . 609
Noble metals, Determination by electrothermal AAS . . . 791

Obituary: Izaak M. Kolthoff . . . No. 8, V
—: Sidney Siggia . . . No. 2, V
—: Professor Dr H. C. Wilhelm Simon (1929–1992) . . . 1307
Olive oil, Determination of oxidative stability . . . 1595
Optical absorbance detectors . . . 1331
— — measurements, cells for . . . 134
— emission spectrometry, inductively coupled plasma (ICP-OES), Determination of rare earths . . . 9
Optode, membrane-based, as pH indicator . . . 765
— membrane, reversible, for picric acid . . . 1569
Ordered media in atomic spectrometry . . . 1759
Organic phase biosensors (review) . . . 1905
Organochlorine compounds, atmospheric . . . 1769
Organomercurials, Speciation . . . 1631
Organophosphinic acids, dissociation constants . . . 1339
Organotin compounds, Determination by GC-AAS . . . 299
Oxidation, electrochemical, of 2,6-dichloro-1,4-phenylenediamine . . . 1789
—, —, of methylenedioxyamphetamines . . . 1379
Oxyphenbutazone, Determination, spectrophotometric . . . 1867

Penicillins, Sensor for . . . 453
2,3-Pentanedione, Determination, fluorimetric . . . 1419
pH indicator optrode . . . 765
— sensor, based on chemically modified electrode . . . 1255
9,10-Phenanthrenequinone, Determination by FIA . . . 405
Phenols as hydrogen-bonding donors . . . 231
—, Determination, kinetic . . . 1505
Phenothiazine derivatives, Determination, spectrophotometric . . . 1525
L-Phenylalanine, Determination with flow sensor . . . 425
o-Phenylphenol residues, Determination in waters . . . 1695
Phosphorescence, stabilized room temperature (RTP) . . . 1657
Phosphorus, dissolved, Speciation . . . 1981
—, oxyanions, Separation . . . 307
Pipril, Electroreduction and determination . . . 1833
Piroxicam, Determination, voltammetric . . . 1637
Platinum, Determination by emission spectrometry . . . 221
— and palladium, Determination by FIA . . . 1975
Plumbane generation, Influence by chelating agents . . . 1147
Polarography, Determination of Ce(III) and Tm(III) . . . 1883
Pollutants, Determination, by ion-trap MS . . . 1031
Poly(N-alkyl-4-vinylpyridinium) triflates, Structure . . . 363
Polysiloxanes, Determination by pyrolysis-MS/MS . . . 1233
Polythiophenes, potentiometric response . . . 1437
Polyurethane sorbents, Separation of Te and Se . . . 1345
Potassium, Determination by FIA-AAS . . . 107
Potentiometric analytical system . . . 1445
— determination, of chlorides . . . 1465
— monitoring, of proteins . . . 1449
— response, of polythiophenes . . . 1437
Praseodymium, Determination by XRF . . . 931
Procaine penicillin G, rapid assay . . . 1201
Procainamide HCl, Determination by FIA . . . 623

Process analysis, Application of FIRE . . . 867
— monitoring, by high-speed chromatography . . . 775
Promethazine, chlorpromazine and trimeprazine, Determination by FIA . . . 681
Proteins, potentiometric monitoring . . . 1449
Pyridoxine, Determination, kinetic . . . 1213

Raman vibrational optical activity . . . 545
Rare earths, Determination by ICP-OES and XRF . . . 9
— —, Extraction . . . 195
— — complexes, Determination, chromatographic . . . 237
Ratio spectra derivative, Determination of Tartrazin and Sunset Yellow . . . 1391
Reagent, 6-Amino-1-naphthol-3-sulphonic acid (J-acid), for Se . . . 781
—, 1-Anilinonaphthalene-8-sulphonic acid, for H_2O_2 . . . 981
—, AScorbic acid, for U . . . 507
—, Beryllon II, for Be . . . 883
—, 5-Br-PADAP, for Gd(III) . . . 385
—, —, for Ni and Fe . . . 1267
—, Chrome Azurol S, for Al . . . 1059
—, Crown ethers, for metal complexes . . . 503
—, — —, for separation of Th . . . 173
—, Cu-Diethyldithiocarbamate, for Cu . . . 1085
—, Cyanex 272, Separation of Co(II) . . . 1535
—, Dichloromethylenediphosphonate, for Mg and Ca . . . 999
—, N,N′-Difuroyl thiourea, for Ag and Hg(II) . . . 1847
—, p-Dimethlaminobenzaldehyde, for gentamycin . . . 851
—, p-Dimethylaminocinnamaldehyde, for oxyphenbutazone . . . 1867
—, Emodin, for Mg(II) and Cu(II) . . . 1519
—, Fulvic acid, for Sr and Eu . . . 1425
—, Iodonitrotetrazolium chloride, for Cr . . . 725
—, — for Mn . . . 707
—, Isoniazide, for diacetyl and 2,3-pentanedione . . . 1419
—, Methylene Blue, for Cr(VI) . . . 713
—, Murexide, as indicator . . . 503
—, PAN, for extraction . . . 195
—, —, for maneb . . . 201
—, PAR, for V . . . 541
—, Pyrogallol-bromate, for nitrite . . . 1375
—, Tetracycline, for metals . . . 641
—, 4-(2-thiazolylazo)resorcinol, for metals . . . 565
—, Triphenyltetrazolium chloride, for Hg . . . 719
— Tris(bipyrazine), Complexes with Ru(II) . . . 515
—, Zincon, for Cu and Zn . . . 511
Regression analysis, Accuracy of Monte Carlo confidence intervals . . . 355
Resin bead detection, of oxyphenbutazone . . . 1867
Resolution, of catechol-resorcinol mixtures . . . 1601
Review: Amperometric gas sensors . . . 461
—, MIcrobial calorimetric analysis of aqueous organic compounds . . . 127
—, New metal-selective reagents . . . 1313
—, Organic-phase biosensors . . . 1905
Ruthenium(II), Complexes with tris(bipyrazine) . . . 515

Saccharin, Determination, potentiometric . . . 737
Samplers, diffusive, convective transport . . . 785
Selenium, Determination, spectrophotometric . . . 781
Sensor, "Air-gap" cyanide, for chlorides . . . 1465
—, fiber-optic, for ammonia gas . . . 757
—, for Fe(II) . . . 749
—, non-enzymatic, for penicillins . . . 453
—, optical-waveguide, humidity effects on response . . . 431
—, piezoelectric crystal, for acetic acid vapours . . . 1725
Sequential injection and robotics, for rhFXIII assay . . . 1943
Silver, Determination by new reagent . . . 1847
Simultaneous multielement AA spectrometer . . . 879
Solid interfaces, Use in FIA . . . 21
— phase extraction, with C_{18} bonded silica disks . . . 1665
— samples, Digestion for determination by AAS . . . 1609
Solubility product, rapid determination . . . 391
Space-age analysis . . . 119, 121
Spectrofluorimetry, Assay for procaine penicillin G . . . 1201
—, Determination of Zn . . . 17
—, first-derivative synchronous solid-phase . . . 1695
—, Study of Tl(I) complexes . . . 1353
Spectrometry, atomic, Use of ordered media . . . 1759
Strontium, Binding by fulvic acid . . . 1425

Sulphate, Determination in uranium leach solutions . . . 179
—, — FIA turbidimetric . . . 1529
Sulphur species, Determination, voltammetric . . . 37
Synthesis of poly(acrylamidrazone-hydrazide), chelating fiber . . . 527

Tellurium and selenium, Separation . . . 1345
Termolecular complex formation . . . 1019
Tetrahydroborate, indirect determination . . . 1283
Thallium(I), spectrofluorimetric study of complexes . . . 1353
Thiocyanato complexes of Fe(III) . . . 599
Thorium, Determination by adsorptive SV . . . 845
—, Determination, spectrophotometric . . . 1851
—, Separation from lanthanides . . . 173
Thulium(III), Determination, polarographic . . . 1883
Time-based injector, for FIA . . . 1967
Tin-lead solders, complete dissolution . . . 1207
Titration, automated . . . 1937
—, bromometric, of carbimazole . . . 577
—, complexometric of MgO . . . 1005
—, iodometric, of Cr(III) and (VI) . . . 841
—, potentiometric, of penicillins . . . 811
—, —, of saccharin . . . 737
Tolnaftate, Determination spectrophotometric . . . 571
Trans-2,3-Diemethylthiirane, Configuration . . . 545
Trimeprazine and trifluoperazine, Determination, fluorimetric . . . 1361
Tube detectors, organically doped sol-gel . . . 749
Tungsten, Determination, in geochemical samples . . . 1433
Tungsten(VI), Determination by HPLC . . . 641
L-Tyrosine, Determination by FIA . . . 995

Uranium, Determination, spectrophotometric . . . 507
Uranium(VI), Extraction . . . 1261

Vanadium, Determination by electrothermal AAS . . . 1815
—, — of ultratraces . . . 135
—, derivative synchronous fluorescence, Determination of rodenticides . . . 225
—, difference, of benzaldehyde . . . 919
—, emission, Determination of Pt, . . . 221
—, Flame IR emission (FIRE) . . . 867
—, FTIR emission, Determination of chlorinated HCs . . . 247
— Inductively coupled argon plasma (ICP), Determination of sulphate . . . 179
—, — — optical emission, Determination of rare earths . . . 9
—, ICP-OES, Determination of elements in Sn-Pb solder . . . 1207
—, mass, ion-trap, Determination of pollutants . . . 1031
—, — ICP, Determination of Mo . . . 975
—, —, pyrolysis/tandem, for characterization of polymers . . . 363
—, — — (MS/MS), of polysilosiloxanes . . . 1233
—, near-IR, of dye system . . . 935
—, — — reflectance, Determination of ascorbic acid . . . 1671
—, photoacoustic, determination of Hg(II) . . . 1097
—, supersonic-jet, of thermal decomposition products . . . 255
—, surface enhanced Raman (SERS) . . . 1741
—, X-ray fluorescence (XRF), Determination of rare earths . . . 9
Spectrophotometry, derivative, Determination of Be and Al . . . 515
—, —, — of Tartrazin and Sunset Yellow . . . 1391
—, —, — simultaneous, of Th and U . . . 1851
—, first derivative, Determination, of Mg(II) and Cu(II) . . . 1519
—, second derivative, Determination of Co . . . 1405
—, Solid-phase, Determination of Al . . . 1059
—, thermal lens (TLS) . . . 1711
—, third derivative, Determination of Cu and Ni . . . 897
Speed variation system, for automated titrations . . . 1937
Standard pH values, assignment to buffers . . . 863
— addition method, for XRF . . . 669
Stationary phase properties, in GLC . . . 154
Statistical optimization techniques, in FIA . . . 623
Stopped flow injection analysis, of ethanol/methanol mixtures . . . 855
— — — —, of Ga(III)-Al(III) mixtures . . . 261
—, — spectrophotometric . . . 541
Vitamin C, Determination by FIA . . . 593
Voltammetry, Determination, of ascorbic acid . . . 399
—, — of busipirone . . . 1551
—, — of In . . . 761
—, — of piroxicam . . . 1637
—, adsorptive stripping (SV), Determination of Al . . . 351

—, — —, — of dipyridamole 1183
—, — —, — of flunitrazepam 1649
—, — —, — of metronidazole 1073
—, — —, — of mitoxantrone 325, 333
—, — —, — of Ni 1167
—, — —, — of Th 845
—, — —, differential pulse (DPASV), Determination of Zn 205
—, — —, square-wave, Determination of Ga 1273
—, cathodic stripping, differential pulse, of Cu complexes 1481
—, — —, — —, Determination of S species 37
—, linear-scan, Determination of Au ultratraces 1823

Warfarin, Determination, spectrophotometric 25
Water-organic solvent systems, in CCC 1489

X-ray fluorescence spectrometry (XRF), Determination of Ce, La and Pr 931

Zinc, Determination by DPASV 205
—, — by FIA 381, 511
—, — simultaneous with Cd and Cu 1861
—, — spectrofluorimetric 17
Zinc(II), mixed-ligand complexes 1411
Zopiclone, electrochemical behaviour 313

SEND FOR A FREE SAMPLE COPY OF ...

MARINE POLLUTION BULLETIN

The International Journal for Marine Environmentalists, Scientists, Engineers, Administrators, Politicians and Lawyers

Editor: **Charles Sheppard**, *Department of Biological Sciences, University of Warwick, Coventry CV4 7AL, UK*
UK Founding Editor: **Robert B. Clark**

(00400)
Subscription Rate 1994: Volumes 28-29 (24 issues) **£278.00 (US$430.00)**
ISSN 0025-326X

Audience: Marine Pollution Environmentalists, Scientists, Engineers, Administrators, Managers, Politicians and Lawyers.

AIMS AND SCOPE
Marine Pollution Bulletin is concerned with the rational use of maritime and marine resources in estuaries, the seas and oceans, as well as with documenting marine pollution and introducing new forms of measurement and analysis. A wide range of topics are discussed as news, comment, reviews and research reports, not only on effluent disposal and pollution control, but also on the management and protection of the marine environment in general. A distinctive feature of the *Bulletin* is the number of different categories of articles which are published. Papers *(Reports)* form the core of the journal, while *Baselines* document measurements which are expected to have value in the future. *Reviews* are generally invited by the editors on subjects which cross traditional lines, but suggestions for topics are welcomed. *Viewpoints* are a less formal forum for scientists to comment freely on matters of relevant national and international importance. The *Laws of the Sea* column explains and comments on new or impending national and international legislation relating to the use of the sea. Other sections of the *Bulletin* include *News, New Products, Conference Reports, Conference Diary, Correspondence and Book Reviews.*

A Selection of Papers
M.D. NICHOLSON, R.J. FRYER (UK), The statistical power of monitoring programs.
J.W. READMAN *et al.*, (Monaco), Persistant organophosphorous pesticides in tropical marine environments.
M.R. PRESTON (UK), The interchange of pollutants between the atmosphere and oceans.
J.P.G. SPURGEON (UK), The economic valuation of coral reefs.
G. REES (UK), Health implications of sewage in coastal waters.
K.A. BURNS (Bermuda), Analytical methods used in oil spill studies.
N. RAMAIAH, D. CHANDRAMAHAN (India), Ecological and laboratory studies on the role of luminous bacterial and their luminescence in coastal pollution surveillance.
T.F. BIDLEMAN *et al.*, (Canada), Organochlorine pesticides in the atmosphere of the southern ocean and Antarctica.
C.D. CLARKE (UK), Satellite remote sensing for marine pollution investigations.
F. WULFF, L. RAHM (Sweden), Accumulation of chlorinated organic matter in the Baltic Sea from 50 years of use - a threat to the environment?

Indexed/Abstracted in: *Curr Cont ASCA, Aqua Abstr, BIOSIS Data, CAB Inter, Cam Sci Abstr, CABS, Chemical Abstracts Service, Curr Cont/Agri Bio Env Sci, Envir Per Biblio, Excerp Med, Geo Abstr, Health & Saf Abstr, Petrol Abstr, Sci Cit Ind SCISEARCH Data, Tox Abstr Environment Abstracts*

Pergamon

Pergamon is an imprint of Elsevier Science.
Sterling price quoted applies worldwide except in The Americas.
US dollar price quoted applies in The Americas only.
Prices include postage and insurance. Customers resident in the EC will be charged VAT (or the equivalent) at their own country's rate, unless a VAT (or equivalent) registration number is supplied. Pergamon's VAT registration number in the UK is: GB 490 6384 25 000.

Please send me a **FREE SAMPLE COPY** of **MARINE POLLUTION BULLETIN (00400)**

Name _____ Position _____

Organisation _____ Department _____

Address _____

_____ Post/Zip Code _____

Return to: Elsevier Science Ltd, PO Box 800, Kidlington, Oxford OX5 1DX, UK
or Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

IHA4

SEND FOR A FREE SAMPLE COPY OF ...

GEOCHIMICA ET COSMOCHIMICA ACTA

Journal of The Geochemical Society and The Meteoritical Society

Executive Editor: **Gunter Faure**, *60Y Pressey Hall, 1070 Carmack Road, Ohio State University, Columbus, OH 43210-1002, USA*

(00212)
Subscription Rate 1994: Volume 58 (24 issues) **£580.00 (US$895.00)**
ISSN 0016-7037

Audience: Geochemists, including Terrestrial, Planetary and Meteoritical Geochemists and Oceanographers.

AIMS AND SCOPE
Geochimica et Cosmochimica Acta is the official journal of The Geochemical and The Meteoritical Societies. It is devoted to the publication of original research papers covering the entire spectrum of geochemistry and cosmochemistry and provides a multidisciplinary forum incorporating chemistry, geology, physics and astronomy. Subjects covered include meteorites, geochronology, marine geochemistry, organic geochemistry and general geochemistry, and comments on papers are published, together with the authors' replies. Articles in French and German are also accepted for publication, with abstracts in English. In addition, the journal publishes book reviews and information on forthcoming meetings. Groups of papers on particular topics of special importance are published from time to time by arrangement with the editor.

A Selection of Papers
C.J. BERTRAM, H. ELDERFIELD (UK), The geochemical balance of the rare earth elements and neodymium isotopes in the oceans.
Y.A. LITVIN (Russia), **T. GASPARIK** (USA), Melting of jadeite to 16.5 GPa and melting relations on the enstatite-jadeite join.
E.P. MOLDOVANNYI, L.M. WALTER, L.S. LAND (USA), Strontium, boron, oxygen, and hydrogen isotope geochemistry of brines from basal strata of the Gulf Coast sedimentary basin.
A.J.G. JUREWICZ, D.D. MITTLEFEHLDT, J.H. JONES (USA), Experimental partial melting of the Allende (CV) and Murchison (CM) chondrites and the origin of asteroidal basalts.
A. ANDERKO, K.S. PITZER (USA), Equation-of-state representation of phase equilibria and volumetric properties of the system NaCl-H_2O above 573 K.
S. CHACKRABORTY, D.B. DINGWELL (Germany), **M. CHAUSSIDON** (France), Chemical diffusivity of boron in melts of haplogranitic composition.
Y. MIURA, K. NAGAO, T. FUJITANI (Japan), Kr-81 terrestrial ages and grouping of Yamato eucrites based on noble gases and chemical compositions.
K. SUZUKI, QI-LU, H. SHIMIZU, A. MASUDA (Japan), Reliable Re-Os ages for molybdenite.
A. SARKAR, S.K. BHATTACHARYA, M.M. SARIN (India), Geochemical evidence for anoxic deep water in the Arabian Sea during the last glaciation.
M. KOMIYA, A. SHIMOYAMA, K. HARADA (Japan), Examination of organic compounds from insoluble organic matter isolated from some Antarctic carbonaceous chondrites by heating experiments.
J.S. SINNINGHE DAMSTÉ, F.X.C. DE LAS HERAS, F.F. VAN BERGEN, J.W. DE LEEUW (The Netherlands), Characterization of Tertiary Catalan lacustrine oil shales: discovery of extremely organic sulphur-rich Type I kerogen.

Indexed/Abstracted in: *BIOSIS Database, INSPEC, Energy Res Abstracts, Energy Data Base, Int Aerospace Abstracts, PASCAL-CNRS Database, Aqua Abstr, Curr Cont Phy/Chem & Earth Sci, Geo Abstr, Geo Bib & Index, Mineral Abstr, Petrol Abstr, Res Alert, Curr Cont Sci Cit Ind, Curr Cont SCISEARCH Data*

Pergamon

Pergamon is an imprint of Elsevier Science.
Sterling price quoted applies worldwide except in The Americas.
US dollar price quoted applies in The Americas only.
Prices include postage and insurance. Customers resident in the EC will be charged VAT (or the equivalent) at their own country's rate, unless a VAT (or equivalent) registration number is supplied. Pergamon's VAT registration number in the UK is: GB 490 6384 25 000.

Please send me a **FREE SAMPLE COPY** of **GEOCHIMICA ET COSMOCHIMICA ACTA (00212)**

Name _____ Position _____

Organisation _____ Department _____

Address _____

_____ Post/Zip Code _____

Return to: Elsevier Science Ltd, PO Box 800, Kidlington, Oxford OX5 1DX, UK
or Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

IHA4

SEND FOR A FREE SAMPLE COPY OF ...

CHEMOSPHERE

Chemistry, Biology and Toxicology as Related to Environmental Problems

Editor-in-Chief: **O. Hutzinger**, *Chair of Ecological Chemistry and Geochemistry, University of Bayreuth, D-95440 Bayreuth, Postfach 10 12 51, Germany*
Executive Editor: **T. Stephen**, *8 Lewis Close, Risinghurst, Headington, Oxford OX3 8JD, UK*

(00362)
Subscription Rate 1994: Volumes 28-29 (24 issues) Subscription price: **£970.00 (US$1495.00)**
ISSN 0045-6535

Audience: Environmental Scientists, Chemical Engineers, Biologists, Toxicologists.

AIMS AND SCOPE
Chemosphere is an international journal designed for the rapid publication of original and important communications as well as review articles. *Chemosphere*, as a multi-disciplinary journal, offers maximum dissemination of investigations related to the health and safety of every aspect of life. Environmental protection encompasses a very wide field and relies on scientific research in chemistry, biology, physics, toxicology and inter-related disciplines.
Three types of communication will be published.

- Original communications describing important new discoveries or further developments in important fields of investigation related to the environment and human health.
- Invited reviews, critical but non-polemical, mainly of new rapidly developing areas of environmental protection.
- A special information and news section will provide current information on books, meetings, industrial practices and government decisions.

Scientific investigations in any of the following main topics will be considered for publication: The Natural Environment; Meteorology and Climate; Environmental Chemicals and Analysis; Air and Water Pollution, Waste Treatment; Environmental Fate of Chemicals; Pharmacodynamics - Bioaccumulation - Metabolism; Effects on Man; Occupational Hazards and Exposure; Ecotoxicology; Atmospheric Chemistry and Global Change. *Chemosphere* publishes the annual Dioxin conferences.

A Selection of Papers
W. VETTER, B. LUCKAS (Germany), **M. OEHME** (Norway), Isolation and purification of the two main toxaphene congeners in marine organisms.
J. DE JONGH, A. BELFROID, T. SINNIGE, W. SEINEN, M. VAN DEN BERG (The Netherlands), Disposition, elimination and enzyme induction of 1,2,3,7,8-PnCDD, 1,2,3,6,8-HxCDD and 2,3,4,7,8-PnCDF in the liver of the mouse after a single oral dose.
K. TESCHKE *et al.* (Canada), Dioxins and furans in residents of a forest industry region of Canada.
H. NISHIKAWA, T. KATAMI, Y. TAKAHARA, H. SUMIDA, A. YASUHARA (Japan), Emission of organic compounds by combustion of waste plastics involving vinyl chloride polymer.
M. MÜLLER, W. KLEIN (Germany), Comparative evaluation of methods predicting water solubility for organic compounds.
C.S. CREASER, F. KROKOS, J.R. STARTIN (UK), Analytical methods for the determination of non-*ortho* substituted chlorobiphenyls: a review.
N.G. ANDRONOVA (USA), **I.L. KAROL** (Russia), The contribution of USSR sources to global methane emission.
M.C. CULLEN, D.W. CONNELL (Australia), Bioaccumulation of chlorohydrocarbon pesticides by fish in the natural environment.

Indexed/Abstracted in: *Anal Abstr, ASCA, Aqua Abstr, Biosis Data, CAB Inter, Cam Sci Abstr, Curr Cont, Chemical Abstracts Service, CABS, Environ Per Bibl, Excerp Med, PASCAL-CNRS Data, Sci Cit Ind, SCISEARCH Data*

Pergamon

Pergamon is an imprint of Elsevier Science.
Sterling price quoted applies worldwide except in The Americas.
US dollar price quoted applies in The Americas only.
Prices include postage and insurance. Customers resident in the EC will be charged VAT (or the equivalent) at their own country's rate, unless a VAT (or equivalent) registration number is supplied. Pergamon's VAT registration number in the UK is: GB 490 6384 25 000.

Please send me a **FREE SAMPLE COPY** of **CHEMOSPHERE** (00362)

Name _____ Position _____

Organisation _____ Department _____

Address _____

_____ Post/Zip Code _____

Return to: Elsevier Science Ltd, PO Box 800, Kidlington, Oxford OX5 1DX, UK
or Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

IHA4

SEND FOR A FREE SAMPLE COPY OF ...

ENVIRONMENTAL TOXICOLOGY & CHEMISTRY

The Official Journal of the Society of Environmental Toxicology and Chemistry (SETAC)

Editor-in-Chief: **C.H. Ward**, *Department of Environmental Science and Engineering, Rice University, Houston, TX 77251, USA*

(00686)
Subscription Rate 1994: Volume 13 (12 issues) **£335.00 (US$515.00)**
ISSN 0730-7268

Audience: Professionals in education, industry and government concerned with environmental toxicology and chemistry and their application to hazard assessment.

AIMS AND SCOPE
Environmental Toxicology and Chemistry, the official journal of the Society of Environmental Toxicology and Chemistry, is dedicated to furthering scientific knowledge and disseminating information on environmental toxicology and chemistry, including the application of these sciences to hazard assessment. The journal provides a forum for professionals in academia, industry, government and other segments of society involved in the use, protection and management of the environment for the enhancement of ecological health and human welfare. *Environmental Toxicology and Chemistry* is divided into three sections, each with its own editors: environmental chemistry, environmental toxicology and hazard assessment. Interdisciplinary in scope, the journal includes integrative studies involving components of classical toxicology, physiology, biology, microbiology, organic, environmental and analytical chemistry, anatomy, genetics, environmental engineering, geology, ecology, soil, water and atmospheric sciences, and economics. Through peer-reviewed research papers, short communications, and review articles, *Environmental Toxicology and Chemistry* reports concepts and the results of experimental and analytical studies that can be used for the development of ecologically acceptable practices and principles.

A Selection of Papers
S. LITTEN, B. MEAD, J. HASSETT (USA), Application of passive samplers (PISCES) to locating a source of PCBs on the Black River, New York.
C.L. MEYER, B.C. SUEDEL, J.H. RODGERS Jr, P.B. DORN (USA), Bioavailability of sediment-sorbed chlorinated ethers.
M.E. TESKE, J.F. BOWERS, J.E. RAFFERTY, J.W. BARRY (USA), FSCBG: An aerial spray dispersion model for predicting the fate of released material behind aircraft.
S.R. WILD, K.C. JONES (UK), Biological and abiotic losses of polynuclear aromatic hydrocarbons (PAHs) from soils freshly amended with sewage sludge.
K.B. WOODBURN, F.R. BATZER, F.H. WHITE, M.R. SCHULTZ (USA), The aqueous photolysis of triclopyr.
W.J.G.M. PEIJNENBURG, M.J. HART, H.A. DEN HOLLANDER, D. VAN DE MEENT, H.H. VERBOOM (The Netherlands), **N.L. WOLFE** (USA), Reductive transformations of halogenated aromatic hydrocarbons in anaerobic water sediment systems: kinetics, mechanisms and products.

Indexed/Abstracted in: *Curr Cont ASCA, Biosis Data, CAB Inter, Cam Sci Abstr, Chemical Abstracts Service, CABS, Curr Cont/Agri Bio Env Sci, Envir Per Biblio, ISI/Geosci Tech, Sci Cit Ind, SCISEARCH Data*

Pergamon

Pergamon is an imprint of Elsevier Science.
Sterling price quoted applies worldwide except in The Americas.
US dollar price quoted applies in The Americas only.
Prices include postage and insurance. Customers resident in the EC will be charged VAT (or the equivalent) at their own country's rate, unless a VAT (or equivalent) registration number is supplied. Pergamon's VAT registration number in the UK is: GB 490 6384 25 000.

Please send me a **FREE SAMPLE COPY** of **ENVIRONMENTAL TOXICOLOGY & CHEMISTRY (00686)**

Name _____ Position _____

Organisation _____ Department _____

Address _____

_____ Post/Zip Code _____

Return to: Elsevier Science Ltd, PO Box 800, Kidlington, Oxford OX5 1DX, UK
or Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

IHA4

Did you know that if you are a contributor to any Elsevier Science Book or Journal you are entitled to

30%

Discount on all

Elsevier

Pergamon

North Holland

Excerpta Medica

Books?

(except multi-volume reference works)

Contact your nearest Elsevier Science office in order to obtain a subject catalogue

Elsevier Science Ltd, The Boulevard, Langford Lane,
Kidlington, Oxford, OX5 1GB, UK
Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

cor017/p8

• BACK ISSUES OF • PERGAMON INTERNATIONAL RESEARCH JOURNALS

Back issues of Pergamon journals are available in hard copy. New subscribers to a journal may purchase back issues of that publication in hard copy edition at 25% discount off the standard price. Elsevier Science maintains stocks of back issues and orders may be placed with confidence at your nearest Elsevier Science office. Should any issue of a volume be temporarily out of stock at the time of ordering, a high quality photoduplicated copy will be supplied at no extra charge to complete your order.

SAVE UP TO 25% BY PURCHASING COMPLETE SETS
Customers wishing to purchase complete sets can do so at a saving of 25% off the individual volume price.

MICROFORM EDITIONS
Back issues in microform of Pergamon research journals are also available. For further information please apply to your nearest Elsevier Science office.

BACK ISSUES PRICE LIST
Full details of the rates of back issues of all Pergamon journals can be found in our Back Issues Price List. Please contact your nearest Elsevier Science office for a copy.

PERGAMON

An imprint of Elsevier Science

Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK
Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA

COR017/p2